PATENT ABSTRACTS OF JAPAN

(11)Publication number : 05-051314

(43)Date of publication of application : 02.03.1993

(51)Int.Cl. A61K 7/48
A61K 7/00
A61K 35/78

(21)Application number : 03-233912

(22)Date of filing : 20.08.1991

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(54) SKIN COSMETICS

(57)Abstract:

PURPOSE: To obtain a skin cosmetic preventing fine wrinkles and a dark color, having excellent storage stability by combining cultured Panax ginseng essence with a cholesterol derivative.

CONSTITUTION: Medicinal Panax ginseng essence having stable qualities, namely cultured ginseng essence, is mixed with a cholesterol derivative such as cholesterol sulfate, its salt or cholesterol fatty acid ester or additionally an amino acid such as L-serine or L-threonine to give a skin cosmetic. The amount of cultured ginseng essence blended is about 0.5-5wt.%, that of the cholesterol derivative is about 0.05-3wt.% and the blending ratio of the cultured ginseng essence and the cholesterol derivative is preferably about 10:1-1:5. The amount of the amino acid added is preferably about 0.001-2wt.%.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

DERWENT-ACC-NO: **1993-112708**

DERWENT-WEEK: 199314

TITLE: Cosmetic material for skin - comprises extract of ginseng, cholesterol deriv. and opt. aminoacid(s)

PATENT-ASSIGNEE: KANEBO LTD[KANE]

PRIORITY-DATA: 1991JP-0233912 (August 20, 1991)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 05051314 A	March 2, 1993	N/A	006	A61K 007/48

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP 05051314A	N/A	1991JP-0233912	August 20, 1991

INT-CL (IPC): A61K007/48, A61K035/78

ABSTRACTED-PUB-NO: JP 05051314A

BASIC-ABSTRACT:

Material contains an extract of cultured ginseng and a cholesterol deriv(s).

The material pref. contains an aminoacid(s). The cholesterol deriv. is e.g. one or a mixt. of cholesterol sulphate, cholesterol fatty acid esters and polyoxyethylene cholesterol ethers.

USE - The material effectively prevents fine wrinkles and blotches, has high storage stability and reduced skin stimulati

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: COSMETIC MATERIAL SKIN COMPRISE EXTRACT GINSENG CHOLESTEROL
DERIVATIVE OPTION AMINOACID

DERWENT-CLASS: A96 B01 B04 D21 E15

CPI-CODES: A12-V04C; B01-D02; B04-A07F2; B10-B02H; B10-B02J; B12-A07; B12-L02;
D08-B09A; E01;

CHEMICAL-CODES:
Chemical Indexing M1 *01*
Fragmentation Code
M423 M431 M782 M903 P943 Q254 V400 V404

Chemical Indexing M5 *02*
Fragmentation Code
M431 M782 M903 M904 P943 Q254 S303 S317 S500 S703
S730 S735 S736 S750 S752 S761 S762 S800 S803 S830
U560 U563
Markush Compounds
199314-18501-M

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:
Key Serials: 0013 0231 1279 1588 2002 2014 2675 2761
Multipunch Codes: 014 028 04- 147 198 231 240 31- 336 525 62- 688 720 728

SECONDARY-ACC-NO:
CPI Secondary Accession Numbers: C1993-049978

* NOTICES *

1.This document has been translated by computer. So the translation may not reflect the original precisely.
2.**** shows the word which can not be translated.
3.In the drawings, any words are not translated.

DETAILED DESCRIPTION

[Detailed Description of the Invention]
[0001]
[Industrial Application] By carrying out activation of the skin cell, promoting circulation, and rising a keratin moisture maintenance function, this invention does so the effectiveness of preventing the ripple of the skin to discover, and dullness, and relates to skin cosmetics excellent in preservation stability.
[0002]
[Description of the Prior Art] In low concentration, if the medicinal ginseng extractives represented with Panax schinseng currently used conventionally have the low permeability to the skin and it is independent, they have the trouble that the activation-ized effectiveness of a cell is not fully demonstrated.
[0003] On the other hand, the activity fall of a skin cell, the circulation fall, the fall of a skin moisture maintenance function, etc. are intricately involved in skin degraded phenomena, such as an increment in the fall of skin flexibility and resiliency, a ripple, and dullness. Therefore, even if it uses only a skin cell activation component, the skin aging prevention effectiveness is not fully acquired.
[0004] Furthermore, although the application blended with the constituent for the skins and a skin approach (JP,53-9328,A), the constituent for membrum-inferius care and cleaning (JP,56-29021,A), an antiphlogistic adhesiveness plaster body (JP,60-181021,A), etc. is indicated about the medicinal ginseng extractives represented with Panax schinseng etc., these are all natural medicinal ginseng extractives.
[0005] Natural medicinal ginseng extractives have the fault that the thing of very much fixed quality is hard to be obtained. the advantage that that in which quality was stabilized by the medicinal OTANENINN gin extractives (culture ginseng extractives are called hereafter) used for this invention as compared with the natural thing is obtained on the other hand, there are many contents of vitamins and there is little unrefined odor which is the peculiar odor of natural medicinal ginseng extractives -- **** -- it is. And although the manufacturing method of culture ginseng extractives is previously indicated by JP,63-139133,A, the example which applied this to skin cosmetics, hair-growing cosmetics, etc. is not found.
[0006] moreover, it is known that cholesterol sulfate and its salt have effectiveness in a skin moisture maintenance function -- **** (JP,60-161911,A) -- it was not able to be said that effectiveness sufficient by just this thing was acquired.
[0007] It is in offering the skin cosmetics which did so the effectiveness of preventing the ripple of the skin discovered by the purpose's carrying out activation of the skin cell, promoting circulation, and rising a keratin moisture maintenance function, and dullness, and were further excellent in preservation stability by making this invention in view of the above actual condition.
[0008]
[Means for Solving the Problem] this invention persons completed header this invention for the ripple of the skin, and it being somber and the prevention effectiveness being discovered by combining cholesterol sulfate or its salts, cholesterol fatty acid ester, etc. with culture ginseng extractives, as a result of inquiring wholeheartedly, in order to attain the above-mentioned purpose.

[0009] That is, the skin cosmetics of this invention are characterized by blending culture ginseng extractives and a cholesterol derivative.
[0010] Hereafter, the detail of the configuration of this invention is explained. Panax schinseng has been treasured more as an omnipotent noble medicine focusing on sthenia strong energy from ancient times. In the physic field, it is used as extracts, fluid extracts, etc. and is used also for cosmetics as ginseng extractives. Although it is known that these ginseng extractives have cell activation and a circulation facilitatory effect, it is supposed that the usefulness of these ginsengs is called at the JINSENO side (Ginsenoside) which is one of the saponins of a principal component.
[0011] By containing the saponin which is equal to a natural medicinal ginseng, and using the extract extractives which extracted culture ginseng extractives with suitable hydrophilic solvents (ethyl alcohol, water and/or ethyl alcohol, propylene glycol, a butylene glycol, a glycerol, low-molecular polyethylene glycol, etc.), the culture ginseng extractives used for this invention are stable in quality, and can obtain useful skin cosmetics with high safety.
[0012] These culture ginseng extractives can be manufactured by the manufacture approach of JP,63-139133,A. That is, a callus is generated in liquid culture from the organization of natural Panax schinseng with a conventional method. The obtained callus is carried out a ** exception, and the collected calluses are dried by warm air-ization, and ethanol is added to this callus (1kg), and it extracts and ripes. Then, culture ginseng extractives (41) are obtained by carrying out vacuum concentration of the extract so that the ethanol content of an extract may become 50 V/V%, leaving it for seven - ten days in a cool place, and filtering to it. According to this approach, stable extractives are obtained in quality than natural Panax schinseng. Hereafter, the stability of quality is shown.
[0013] (Example of reference) the culture Panax schinseng extractives manufactured by the manufacture approach of JP,63-139133,A, and the natural Panax schinseng extractives (natural ginseng extractives are called hereafter) -- thin-layer chromatography -- extractives 1m -- Ginsenoside which is an active principle per one the content of a saponin -- classifying -- TLC scanner The compared result which carried out the quantum is shown in Table 1. In addition, the ethanol content of culture ginseng extractives and natural ginseng extractives is 50 V/V%.
[0014]
[Table 1]

試料	ロットNo	含量（mg/ml）
培養ニンジンエキス	1	4．2
	2	3．8
	3	4．9
天然ニンジンエキス	中国産 1	5．4
	2	1．2
	日本産 1	3．4
	2	5．3
	3	1．3

[0015] If this is seen, as compared with natural ginseng extractives, variation has few saponin contents of culture ginseng extractives, and it turns out that quality is stable.
[0016] The loadings to the inside of the skin cosmetics of the culture ginseng extractives in this invention are 0.5 - 5wt% more preferably that what is necessary is just 0.01 - 10wt% on the basis of a total amount. Under at the minimum of these loadings, even if the effectiveness made into the purpose

of this invention is not fully acquired and exceeds an upper limit, improvement in effectiveness corresponding to that increment cannot be desired.
[0017] As a cholesterol derivative used for this invention, cholesterol sulfate and its salt, cholesterol fatty acid ester, the polyoxyethylene cholesterol ether, etc. are mentioned. although it is desirable, if all are usable if physiologically harmless, but several examples are especially given as salts of cholesterol sulfate (it is hereafter called CHS for short) that it can blend with stability into a skin cosmetics basis -- as mineral salt -- sodium salt, a calcium salt, magnesium salt, etc. -- moreover, there are a lysine salt, a triethanolamine salt, etc. as a salt with an organic base. Moreover, cholesterol stearate, cholesterol isostearate, etc. are used as cholesterol fatty acid ester.
[0018] The loadings of these cholesterol derivative are one sort or two sorts or more of those total quantities, the range of them is 0.01 - 5wt% to a total amount, and the range of them is 0.05 - 3wt% preferably. Even if the effectiveness of the skin cosmetics of this invention is not fully acquired less than [0.01wt%] but these loadings exceed 10wt(s)% on the other hand, improvement in effectiveness corresponding to it cannot be desired.
[0019] Moreover, it is 10:1-1:5 preferably and the compounding ratio of culture ginseng extractives and a cholesterol derivative cannot expect sufficient effectiveness in 50:1-1:20, and the compounding ratio that separates from this.
[0020] Moreover, as amino acid which carry out additional combination, that it can blend with stability into a skin cosmetics basis, if physiologically harmless, although D, L, and DL object are all usable, they can mention L-serine, L-SUTEONIN, etc. and those derivatives as a desirable thing especially.
[0021] The range of 0.001 - 2wt% is suitable for the loadings of the above-mentioned amino acid on the basis of a total amount. Effectiveness with this sufficient less than [0.001wt%] is not acquired, and even if it exceeds 2wt(s)% on the other hand, improvement in effectiveness corresponding to the increment cannot be desired.
[0022] The skin cosmetics of this invention can be made into pharmaceutical forms, such as lotions, milky lotions, creams, or packs, according to a conventional method.
[0023] In this case, as for CHS and its calcium salt, magnesium salt, cholesterol stearate, cholesterol isostearate, etc., it is [the sodium salt of CHS, potassium salt, a lysine salt, a triethanolamine salt the polyoxy ethyl cholesterol ether etc.] desirable as a water solution to dissolve or distribute to an oily basis and to mix with skin cosmetics at homogeneity.
[0024] Moreover, perfume, a germicide, antiseptics, coloring matter, an anti-oxidant, etc. can be suitably blended with the skin cosmetics of this invention in the range which attains the purpose of this invention.
[0025]
[Example] Hereafter, based on an example, this invention is explained in full detail. In addition, the service test method of a publication is shown in an example below.
[0026] the crown with a trouble of a service test method ripple and dullness -- a woman of the year -- the effectiveness after applying each sample of an example and the example of a comparison to 20 child panelists' each regions of face for continuation one month twice every morning and evening every day was evaluated. evaluation -- the ripple prevention effectiveness and dullness -- "the ripple's having decreased" and the number which answered, "the dullness of the skin decreased" showed to each item of the prevention effectiveness.
[0027] Examples 1-6, the examples 1-2 of a comparison, a skin lotion [0028] In the raw material presentation of Table 2, after dissolving the (B) component into (A) or the (C) component, mixed stirring of both the components was carried out, the skin lotion was prepared, and the aforementioned service test was carried out. The result is shown in Table 3. In addition, the (B) component to blend was considered as the passage of Table 3.
[0029]
[Table 2]

（1）組成

	原料成分	配合量(wt)%
(A)	エタノール ジプロピレングリコール ポリオキシエチレン ノニルフェニルエーテル(10.E.0) メチルパラベン	１０．０ ２．０ ０．５ ０．０１
(B)	培養ニンジンエキス、ＣＨＳの塩類、アミノ酸類	表３に記載
(C)	グリセリン 香料 精製水	５．０ ０．１ 総量を100.0とする残量

[0030]
[Table 3]

（B）成分	実用試験	
	小じわ防止	くすみ防止
比較例１　培養ニンジンエキス(0.1%)	7	6
比較例２　培養ニンジンエキス(1.0%)	9	8
実施例１　培養ニンジンエキス(0.1%) CHS ナトリウム塩・2 水塩 (0.5%)	１４	１５
実施例２　培養ニンジンエキス(1.0%) CHS カリウム塩・2 水塩 (0.5%)	１７	１６
実施例３　培養ニンジンエキス(2.0%) CHS ナトリウム塩・2 水塩 (0.2%)	１８	１７
実施例４　培養ニンジンエキス(1.0%) CHS リジン塩(1.0%)	１８	１７
実施例５　培養ニンジンエキス(2.0%) CHS ナトリウム塩・2 水塩 (0.5%) Ｌ－セリン(0.2%)	１８	１９
実施例６　培養ニンジンエキス(5.0%) CHS ナトリウム塩・2 水塩 (0.5%) Ｌ－スレオニン(0.5%)	１９	１９

[0031] (2) it is shown in the property table 3 -- as -- the skin lotion of the examples 1 and 2 of a comparison -- ripple prevention and dullness -- the prevention effectiveness was comparatively low. The skin lotion of this invention of examples 1-6 showed ripple prevention and the good result which is somber and is excellent in all of the prevention effectiveness to it.
[0032] In addition, examples 1-6 did not produce the skin stimulus in the service test in the Homo sapiens skin. Moreover, the examples 5 and 6 which added amino acid had little change especially in the appearance when saving for two months in 45-degree-C thermostatic chamber, the color tone, and the smell property as compared with other examples.
[0033] Skin cream was prepared by the presentation of a publication to Table 4 like examples 7-12, the examples 3-4 of a comparison, and the skin cream above-mentioned example, the service test was carried out, and the result was shown in the right column of Table 5.
[0034]
[Table 4]

（1）組成

	原料成分	配合量(wt%)
(A)	スクワラン オリーブ油 マイクロクリスタリンワックス モノステアリン酸グリセリド ポリオキシエチレンソルビタン モノオレエート N－ステアロイル－L－グルタミン酸 ナトリウム	30．0 3．0 5．0 1．5 3．5 1．0
(B)	培養ニンジンエキス、CHS およびCHSの塩類、コレステロール ステアレート、アミノ酸類	表5に記載
(C)	メチルパラベン グリセリン 精製水	0．2 3．0 総量を100.0 とする残量
(D)	香料	0．2

[0035] (2) After dissolving the (B) component given in the method-of-preparation table 4 into (A) or the (C) component, at 80 degrees C, the heating dissolution was carried out and (A) and the (C) component were mixed. Furthermore, the (D) component was added in the place which cooled and became 5 degrees C, stirring, stirring was continued to 30 degrees C, and each cream was prepared.
[0036]
[Table 5]

(B) 成分	実用試験	
	小じわ防止	くすみ防止

比較例３	培養ニンジンエキス(0.1%)	7	6
比較例４	培養ニンジンエキス(1.0%)	9	9
実施例７	培養ニンジンエキス(0.1%) CHS ナトリウム塩・2 水塩(0.5%)	１５	１４
実施例８	培養ニンジンエキス(0.5%) コレステロールステアレート(0.5%)	１５	１６
実施例９	培養ニンジンエキス(1.0%) CHS カルシウム塩(0.2%)	１７	１７
実施例１０	培養ニンジンエキス(1.0%) CHS リジン塩(1.0%)	１８	１７
実施例１１	培養ニンジンエキス(2.0%) CHS ナトリウム塩・2 水塩(0.5%) Ｌ－スレオニン(0.2%)	１８	１７
実施例１２	培養ニンジンエキス(7.0%) CHS ナトリウム・2 水塩(0.5%) Ｌ－セリン(0.5%)	１９	１９

[0037] (3) it is shown in the property table 5 -- as -- the skin cream of the examples 3 and 4 of a comparison -- ripple prevention and dullness -- the prevention effectiveness was comparatively low. To it, it excelled, and the skin cosmetics of this invention of examples 7-12 were ripple-prevented, they were somber, showed the prevention effectiveness and showed the clearly good result.
[0038] In addition, the thing of examples 7-12 did not produce the skin stimulus in the service test in the Homo sapiens skin. Moreover, the examples 11 and 12 which added amino acid had little change especially in the appearance when saving for two months in 45-degree-C thermostatic chamber, the color tone, and the smell property as compared with other examples.
[0039]
[Effect of the Invention] While ripple-preventing this invention, being somber, and its prevention effectiveness's being very high and excelling in preservation stability like the above, they are useful skin cosmetics without a skin stimulus.

[Translation done.]